**Group Member Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Alg. 2—Statistics Presentation Directions** IC.3 \_\_\_\_ IC.4 \_\_\_\_\_

Ready to present by Wednesday 5/21 IC.5 \_\_\_\_ ID.4 \_\_\_\_\_

In groups of 2-3, create a presentation (powerpoint, prezzi, etc.) that includes each point in the following sections of this unit. Each day in class you will be expected to compete certain portions of the presentation (to keep you on track), if you get behind, it is up to you to finish the presentation on time. Note: Part 2 requires you to conduct a survey so you will want to start this right away!

During your presentation, I will ask a different group mate to discuss/explain different parts of your presentation and each member must be prepared to respond/represent your group.

**Part 1**

Find a study that has been done within the provided categories (health care, education, psychology). Your presentation must include the following points in this order.

* Read and explain in context data from your report.
* Identify the study as a sample survey, observational or experimental and explain why.
* Identify the variables as quantitative or categorical and explain what that means.
* Describe how the data was collected.
* Indicate any potential biases or flaws.
* Identify inferences the author of the report made from sample data.

**Part 2**

Create a survey with only two or three possible answers to choose from. Collect data from at least 50 individuals. Your presentation must include the following points in this order.

* Description of your survey
* Results of your answers (how many people choose each answer—they should all add up to a number 50 or higher)
* Calculation of Margin of Error
* Confidence Interval statement

**Part 3**

Use the mean and standard deviation for the topic assigned to you. Include the following in your presentation in this order.

* Explain normal distribution (include an image of a normal distribution curve—with all standard deviation percentages)
* Explain the details of the provided topic. (highlight the mean and standard deviation)
* Describe why it makes sense that your topic can be modeled with a normal distribution.
* Include a graph (use wolfram-alpha)
* Use your distribution (and your understanding of a normal distribution curve) to explain 3 facts about your topic using the percentages.